

ANOVA Showing the M.S.S. values of different parameters at different stages of plant growth, yield and quality of tomato

APPENDIX-I

		M.S.S. Height of the plant														
Source of Variation	D.F.	30 DAT			50 DAT			70 DAT			90 DAT			110 DAT		
		2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	
Replication	2	0.70	5.74	6.90	1.72	27.95	1.74	1.44	0.25	0.55	3.69					
B-Levels	3	206.02	192.61	284.57	266.37	441.12	514.99	806.53	795.97	1305.16	1341.69					
N-Levels	3	20.87	14.73	67.02	42.73	90.75	59.80	120.01	127.05	231.40	238.69					
B x N	9	0.45	1.40	1.18	1.43	15.22	3.79	9.18	6.20	8.21	6.72					
Error	30	0.11	1.29	2.24	0.36	5.18	0.82	0.82	0.86	2.41	0.80					

M.S.S = Mean Sum of Square.

DAT = Days after transplanting

APPENDIX-II

Source of Variation	D.F.	M.S.S. Leaves per plant											
		30 DAT		50 DAT		70 DAT		90 DAT		110 DAT			
		2003	2004	2003	2004	2003	2004	2003	2004	2003	2004		
Replication	2	0.38	2.19	11.63	16.71	7.03	2.84	7.38	2.81	13.81	1.50		
B-Levels	3	136.57	144.34	1289.15	1037.00	3191.46	2774.40	4028.33	5093.54	4360.33	6475.63		
N-Levels	3	9.88	17.14	236.38	208.43	384.19	354.02	687.13	742.21	702.67	282.04		
B x N	9	0.10	0.89	3.32	1.15	4.87	12.72	41.90	13.57	35.88	10.11		
Error	30	0.36	0.15	5.99	1.12	10.82	3.47	8.16	6.00	10.75	3.46		

M.S.S = Mean Sum of Square.

DAT = Days after transplanting

APPENDIX-III

		M.S.S. Diameter of main shoot														
Source of Variation	D.F.	30 DAT			50 DAT			70 DAT			90 DAT			110 DAT		
		2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	
Replication	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
B-Levels	3	0.05	0.05	0.16	0.17	0.09	0.08	0.08	0.80	0.79	0.70	0.75	0.70	0.70	0.75	
N-Levels	3	0.01	0.01	0.03	0.03	0.02	0.02	0.02	0.06	0.06	0.07	0.05	0.06	0.07	0.05	
B x N	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.00	
Error	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	

M.S.S = Mean Sum of Square.

DAT = Days after transplanting

APPENDIX-IV

Source of Variation	D.F.	M.S.S. Number of Primary branches per plant											
		30 DAT		50 DAT		70 DAT		90 DAT		110 DAT			
		2003	2004	2003	2004	2003	2004	2003	2004	2003	2004		
Replication	2	0.17	0.04	0.04	0.36	0.52	0.31	0.09	0.22	0.06	0.20		
B-Levels	3	4.31	4.39	18.10	20.43	15.41	15.49	14.74	15.20	15.25	16.67		
N-Levels	3	0.35	0.36	2.91	2.59	3.45	3.77	4.56	4.46	4.57	4.91		
B x N	9	0.03	0.03	0.10	0.11	0.05	0.10	0.38	0.05	0.39	0.23		
Error	30	0.03	0.02	0.07	0.01	0.07	0.05	0.07	0.05	0.07	0.05		

M.S.S = Mean Sum of Square.

DAT = Days after transplanting

APPENDIX-V

Source of Variation	D.F.	M.S.S. Number of secondary branches per plant											
		50 DAT		70 DAT		90 DAT		110 DAT					
		2003	2004	2003	2004	2003	2004	2003	2004				
Replication	2	0.48	0.05	2.13	2.74	1.50	3.63	1.11	4.02				
B-Levels	3	21.16	24.15	81.59	75.68	86.71	84.36	89.54	78.09				
N-Levels	3	3.18	2.64	16.33	13.78	17.52	18.43	18.10	19.67				
B x N	9	0.11	0.04	0.36	0.23	0.52	0.37	0.51	0.60				
Error	30	0.07	0.19	0.19	0.34	0.29	0.15	0.32	0.21				

M.S.S = Mean Sum of Square.

DAT = Days after transplanting

APPENDIX-VI

Source of Variation	D.F.	M.S.S. Fresh weight of plant, Dry weight of plant and Root dry weight per plant					
		Fresh weight of plant		Dry weight of plant		Root dry weight	
		2003	2004	2003	2004	2003	2004
Replication	2	21.50	219.50	1.09	23.47	0.02	0.07
B-Levels	3	166613.70	176790.00	10320.63	10470.58	47.68	48.55
N-Levels	3	17428.33	22628.34	1123.13	1140.65	7.45	7.62
B x N	9	2419.00	1722.33	115.15	96.52	0.16	0.33
Error	30	44.07	26.70	4.09	1.82	0.07	0.09

M.S.S = Mean Sum of Square.

DAT = Days after transplanting

APPENDIX-VII

M.S.S. Yield Parameters

Source of Variation	D.F.	Days taken to first flowering		Days taken to first Picking		Total crop duration		Number of fruits per plant.	
		2003	2004	2003	2004	2003	2004	2003	2004
Replication	2	0.41	1.93	3.43	1.45	2.13	0.13	4.45	0.15
B-Levels	3	56.88	48.39	177.84	139.58	498.40	514.10	1089.31	1063.37
N-Levels	3	11.26	21.03	41.84	33.17	105.08	93.44	221.47	213.03
B x N	9	0.10	0.54	1.09	0.23	2.86	1.31	4.60	7.20
Error	30	0.06	0.04	0.33	0.48	1.18	1.19	0.71	0.28

M.S.S = Mean Sum of Square.

DAT = Days after transplanting

APPENDIX-VIII

Source of Variation	D.F.	M.S.S. yield and yield parameters					
		Diameter of fruit		Average fruit weight		average yield	
		2003	2004	2003	2004	2003	2004
Replication	2	0.01	0.01	3.29	0.70	508.25	7.25
B-Levels	3	4.85	4.89	505.20	491.69	287580.00	272772.90
N-Levels	3	1.46	1.40	86.46	114.99	55538.50	67671.33
B x N	9	1.10	0.09	7.63	9.94	2681.67	3405.61
Error	30	0.00	0.00	0.41	0.28	103.05	44.52

M.S.S = Mean Sum of Square.

DAT = Days after transplanting

APPENDIX- IX

Source of Variation	D.F.	M.S.S. Fruit quality parameters			
		T.S.S. of fruit		Ascorbic acid	
		2003	2004	2003	2004
Replication	2	0.00	0.00	-0.01	-0.00
B-Levels	3	0.31	0.33	19.69	19.84
N-Levels	3	0.05	0.05	2.74	2.80
B x N	9	0.00	0.01	0.37	0.40
Error	30	0.00	0.00	0.00	0.00

M.S.S = Mean Sum of Square.

DAT = Days after transplanting

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